

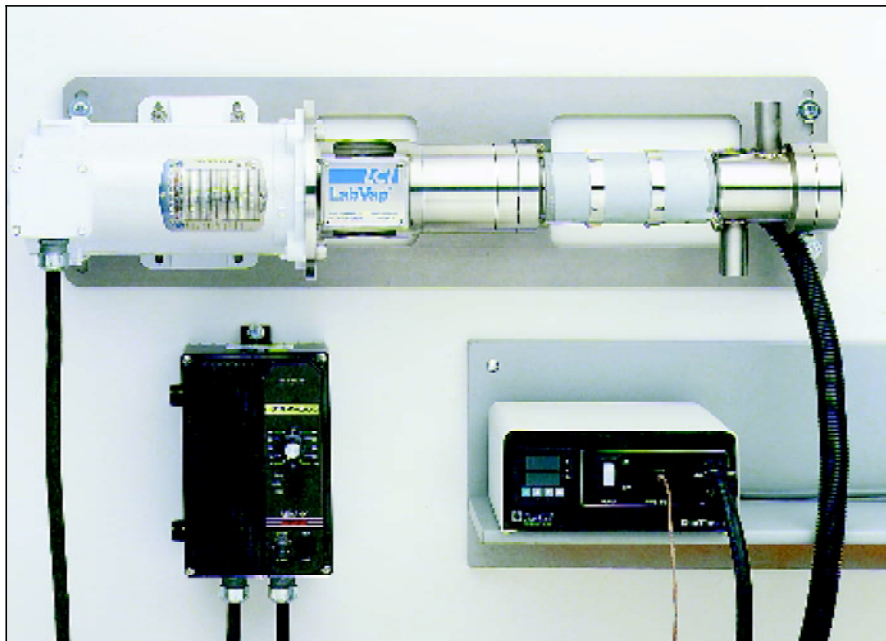
# LABVAP™ THIN-FILM EVAPORATOR

LCI's LabVap is a small thin-film evaporator for R&D facilities developing products and processes involving the thermal separation of process streams using evaporation. This versatile tool provides a means for evaluating thin-film processing of your products in the early stages of product development within your own laboratories. Only small quantities of material are needed. The rugged stainless steel construction and variable speed rotor allow this unit to operate in very difficult conditions.

The LabVap is designed for maximum versatility to evaluate a broad variety of applications. It can provide qualitative results that will help determine if thin-film evaporation technology is suitable for your needs.

The basic horizontal design incorporates:

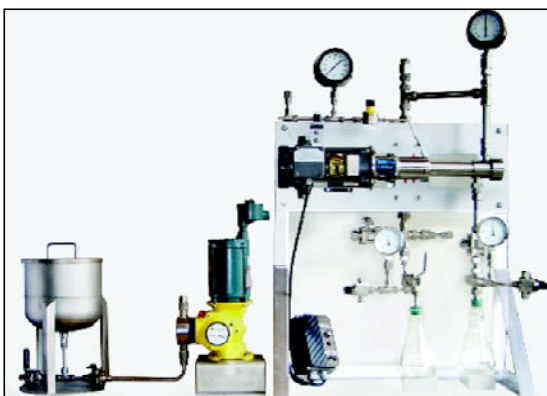
- Sturdy stainless steel body and rotor
- Double mechanical seal for positive sealing from the atmosphere
- Fixed clearance rotor
- Variable rotor speed
- Heating temperatures up to 650°F
- Available with a steam or hot oil heated body
- Nozzle designs that make for easy connections to standard laboratory glassware
- Quick disassembly/assembly for ease in cleaning
- Countercurrent or co-current operation



The LabVap is designed for the needs of an R&D lab.

## Specifications

<b>Area</b>	0.25 ft <sup>2</sup>
<b>Materials of Construction</b>	316 stainless steel
<b>Heating Media</b>	1,500 watt electric heating mantle with temperature control
<b>Design Temperature/Pressure</b>	650°F at atmospheric pressure to full vacuum
<b>Connections</b>	Product Inlet— $\frac{1}{8}$ inch NPT Product Outlet—1 inch stainless steel tubing Vapor Outlet—1 inch stainless steel tubing
<b>Gaskets/o-rings</b>	Carbon fiber/Viton® (Kalrez® optional)
<b>Drive</b>	0.33 hp 1,800 rpm DC motor with SCR variable speed drive (115v/60hz/3ph)



A standard LabVap skid system is now available. This system contains durable components including a frame, feed tank, a metering pump, condenser, and pressure gages for positive and vacuum pressures. Additionally, this skid contains a system for collecting concentrate and distillate streams.

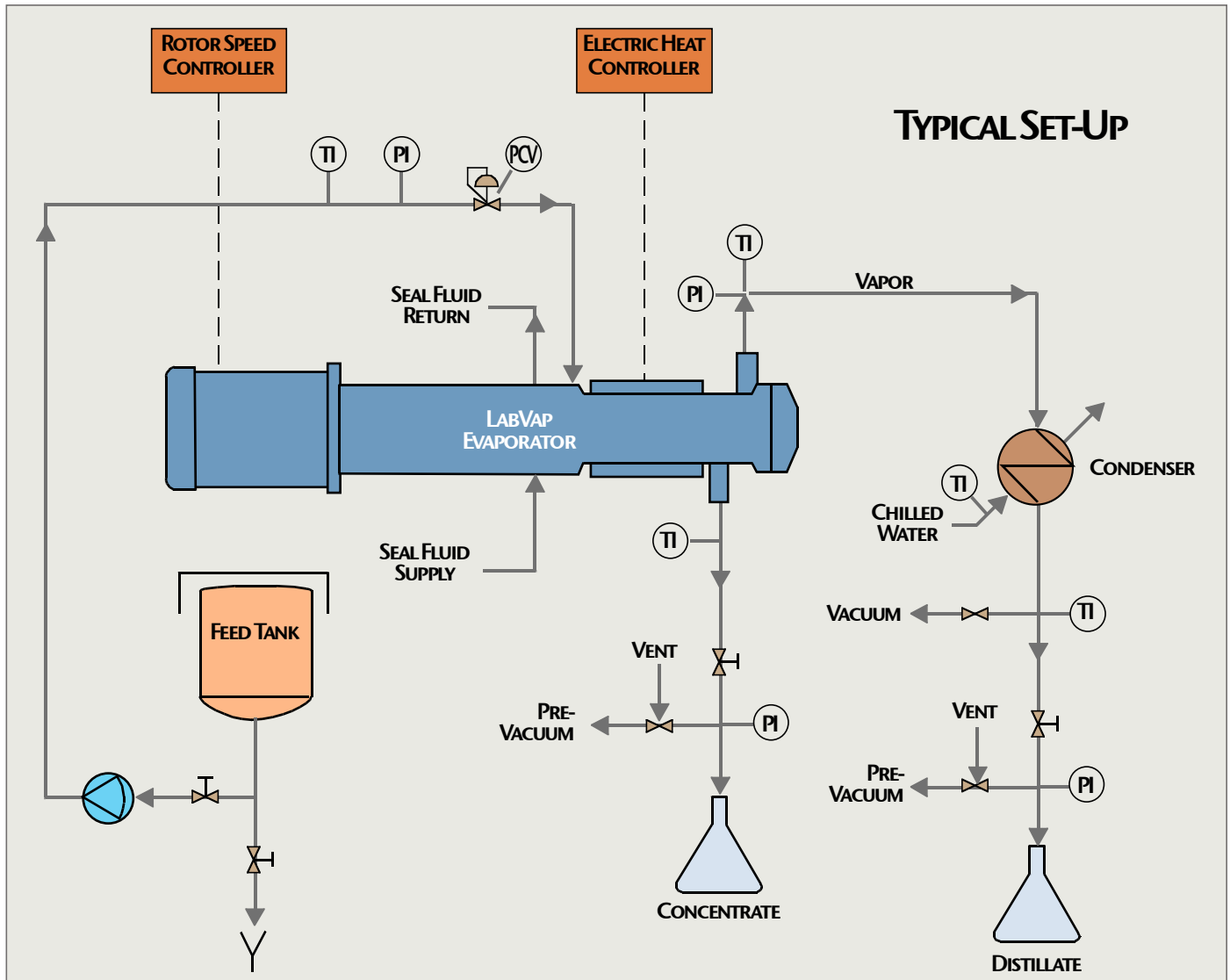


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DS-120

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Qty.	LabVap Component Description (Typical Set-up)
1	LCI LabVap Thin-Film Evaporator
1	Rotor Drive and Drive Control 120VAC
1	Heating Mantle and Temperature Controller 120VAC
1	Feed Tank
1	Feed Pump
1	Feed Line Back Pressure Control Valve
1	Condenser
1	System Frame (With Toolbox, Tools, and Grease)
4	Pressure Gauges
5	Temperature Gauges
4	Ball Valves (Hand Control)
2	Three-Way Valves (Vent & Pre-Vacuum)
1	Condensate Collection Vessel
1	Distillate Collection Vessel



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